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Relevance scale

1 [The Roma personal metadata service](#)

Edward Swierk, Emre Kiciman, Nathan C. Williams, Takashi Fukushima, Hideki Yoshida, Vince Laviano, Mary Baker

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(221.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

People now have available to them a diversity of digital storage facilities, including laptops, cell phone address books, handheld devices, desktop computers and web-based storage services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most up-to-date version of any document in a user's personal file space is available to him on the storage facility he is currently using. We introduce the Roma personal metadata service t ...

Keywords: data synchronization, distributed data storage, distributed databases, metadata, mobile computing, personal systems

2 [Access control to people location information](#)

Urs Hengartner, Peter Steenkiste

November 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(356.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is a sensitive piece of information that only authorized entities should be able to learn. Several challenges arise in the specification and implementation of policies controlling access to location information. For example, there can be multiple sources of location information. The sources can be within different administrative domains, which might allow differen ...

Keywords: Certificates, DSA, RSA, SPKI/SDSI, credential discovery, delegation, location, privacy, trust

3

[Distributed operating systems](#)

 Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

4 Fine-grained mobility in the Emerald system

 Eric Jul, Henry Levy, Norman Hutchinson, Andrew Black
February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Emerald is an object-based language and system designed for the construction of distributed programs. An explicit goal of Emerald is support for object mobility; objects in Emerald can freely move within the system to take advantage of distribution and dynamically changing environments. We say that Emerald has fine-grained mobility because Emerald objects can be small data objects as well as process objects. Fine-grained mobility allows us to apply mobility in new ways but presents implemen ...

5 Cluster-based find and replace

 Robert C. Miller, Alisa M. Marshall
April 2004 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available:  pdf(190.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In current text editors, the find & replace command offers only two options: replace one match at a time prompting for confirmation, or replace all matches at once without any confirmation. Both approaches are prone to errors. This paper explores a third way: *cluster-based find & replace*, in which the matches are clustered by similarity and whole clusters can be replaced at once. We hypothesized that cluster-based find & replace would make find & replace tasks both faster and more accurat ...

Keywords: clustering, error prevention, find & replace, text editing

6 Next generation access control models: Implementing access control to people

 Urs Hengartner, Peter Steenkiste
June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(164.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is a sensitive piece of information, which only authorized entities should be able to learn. Several challenges arise in the specification and implementation of policies controlling access to location information. For example, there can be multiple sources of location information, the sources can be within

different administrative domains, different administrative ...

Keywords: certificates, delegation, dsa, location, rsa, spki/sdsi, trust

7 Managing resources and services: Towards a cultural heritage digital library

Gregory Crane, Clifford Wulfman

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: IEEE Computer Society

Full text available:  pdf(800.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper surveys research areas relevant to cultural heritage digital libraries. The emerging National Science Digital Library promises to establish the foundation on which those of us beyond the scientific and engineering community will likely build. This paper thus articulates the particular issues that we have encountered in developing cultural heritage collections. We provide a broad overview of audiences, collections, and services.

8 Spoken dialogue technology: enabling the conversational user interface

 Michael F. McTear

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available:  pdf(987.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

9 CLUES: dynamic personalized message filtering

 Matthew Marx, Chris Schmandt

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

Full text available:  pdf(907.89 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: electronic mail, filtering, messaging, personal information management, voice mail

10 Ubiquitous hypermedia: Integrating the web and the world: contextual trails on the move



Frank Allan Hansen, Niels Olof Bouvin, Bent G. Christensen, Kaj Grønbæk, Torben Bach Pedersen, Jevgenij Gagach

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: [pdf\(3.41 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents applications of HyCon, a framework for context aware hypermedia systems. The HyCon framework encompasses annotations, links, and guided tours associating locations and RFID- or Bluetooth-tagged objects with maps, Web pages, and collections of resources. The user-created annotations, links and guided tours, are represented as XLink structures, and HyCon introduces the use of XLink for the representation of recorded geographical paths with annotations and links. The HyCon archi ...

Keywords: SVG, XLink, context aware hypermedia, open hypermedia

11 Tools: Role-based control of shared application views

 Lior Berry, Lyn Bartram, Kellogg S. Booth
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**

Publisher: ACM Press

Full text available: [pdf\(745.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Collaboration often relies on all group members having a shared view of a single-user application. A common situation is a single active presenter sharing a live view of her workstation screen with a passive audience, using simple hardware-based video signal projection onto a large screen or simple bitmap-based sharing protocols. This offers simplicity and some advantages over more sophisticated software-based replication solutions, but everyone has the exact same view of the application. This c ...

Keywords: CSCW, application, bitmap, policy, privacy, role, sharing, verbosity, view

12 Speech in, X out: Augmenting conversations using dual-purpose speech

 Kent Lyons, Christopher Skeels, Thad Starner, Cornelis M. Snoeck, Benjamin A. Wong, Daniel Ashbrook
October 2004 **Proceedings of the 17th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: [pdf\(263.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we explore the concept of dual-purpose speech: speech that is socially appropriate in the context of a human-to-human conversation which also provides meaningful input to a computer. We motivate the use of dual-purpose speech and explore issues of privacy and technological challenges related to mobile speech recognition. We present three applications that utilize dual-purpose speech to assist a user in conversational tasks: the Calendar Navigator Agent, DialogTabs, and Speech C ...

Keywords: dual-purpose speech, mobile computing, speech user interfaces

13 The structure of Cedar

 Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann
June 1985 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 , 18 Issue 7 , 6

Publisher: ACM Press

Full text available: [pdf\(1.79 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

14 Security for Web Applications and P2P: Abstracting application-level web security

 David Scott, Richard Sharp

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(287.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Application-level web security refers to vulnerabilities inherent in the code of a web-application itself (irrespective of the technologies in which it is implemented or the security of the web-server/back-end database on which it is built). In the last few months application-level vulnerabilities have been exploited with serious consequences: hackers have tricked e-commerce sites into shipping goods for no charge, user-names and passwords have been harvested and confidential information (such as ...

Keywords: application-Level web security, component-based design, security policy description language

15 Human interaction: Stuff I've seen: a system for personal information retrieval and re-

 use

Susan Dumais, Edward Cutrell, JJ Cadiz, Gavin Jancke, Raman Sarin, Daniel C. Robbins

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Publisher: ACM Press

Full text available:  pdf(372.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most information retrieval technologies are designed to facilitate information discovery. However, much knowledge work involves finding and re-using previously seen information. We describe the design and evaluation of a system, called *Stuff I've Seen (SIS)*, that facilitates information re-use. This is accomplished in two ways. First, the system provides a unified index of information that a person has seen, whether it was seen as email, web page, document, appointment, etc. Second, the system ...

Keywords: interactive information retrieval, personal information management, user interfaces, user studies

16 SHS Orcas: the first integrated information system for long-term healthcare facility

 management

Steve Calde, Kim Goodwin, Robert Reimann

April 2002 **Case studies of the CHI2002|AIGA Experience Design FORUM**

Publisher: ACM Press

Full text available:  pdf(785.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SHS.com (Shared Healthcare Systems) provides software solutions and services for the senior healthcare market. In 1998, SHS engaged Cooper to help design a next-generation healthcare information system that would for the first time provide true integration of clinical, financial, and case management information, allowing comprehensive management of long-term healthcare facilities. Cooper had an opportunity to design a

product that not only improved the efficiency of healthcare facilities, but als ...

Keywords: case management, clinical, design patterns, design principles, ethnography, financial, healthcare, information system, interaction design, personas, scenario-based design, trend analysis

17 [Tools & techniques track: automatically managing media: Meaningful presentations of photo libraries: rationale and applications of bi-level radial quantum layouts](#)

 Jack Kustanowitz, Ben Shneiderman

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available:  pdf(8.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Searching photo libraries can be made more satisfying and successful if search results are presented in a way that allows users to gain an overview of the photo categories. Since photo layouts on computer displays are the primary way that users get an overview, we propose a novel approach to show more photos in meaningful groupings. Photo layouts can be linear strips, or zoomable three dimensional arrangements, but the most common form is the two-dimensional grid. This paper introduces a novel b ...

Keywords: digital libraries, layout generation, photo management, user interfaces, visual presentation

18 [Transcoding proxy for nonvisual web access](#)

 Hironobu Takagi, Chieko Asakawa

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available:  pdf(423.61 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Web accessibility, annotations, blind, differential, portal, transcoding

19 [Technical correspondence](#)

 CORPORATE Tech Correspondence

October 1989 **Communications of the ACM**, Volume 32 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.15 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 [Zones, contracts and absorbing changes: an approach to software evolution](#)

 Huw Evans, Peter Dickman

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99**, Volume 34 Issue 10

Publisher: ACM Press

Full text available:  pdf(2.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a novel approach to managing the evolution of distributed, persistent systems at run-time. This is achieved by partitioning a system into disjoint zones, each of which can be evolved without affecting code in any other. Contracts are defined between

zones, making type-level interdependencies and inter-zone communication explicit. Programmer supplied code is added to the running system, at the boundary between zones, to constrain the sco ...

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